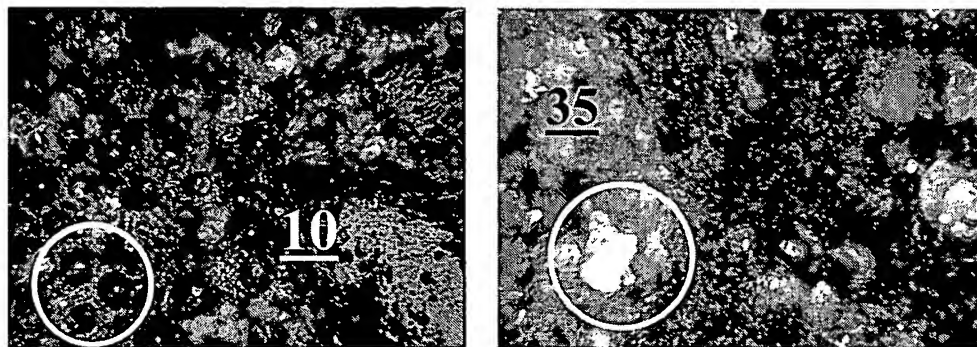
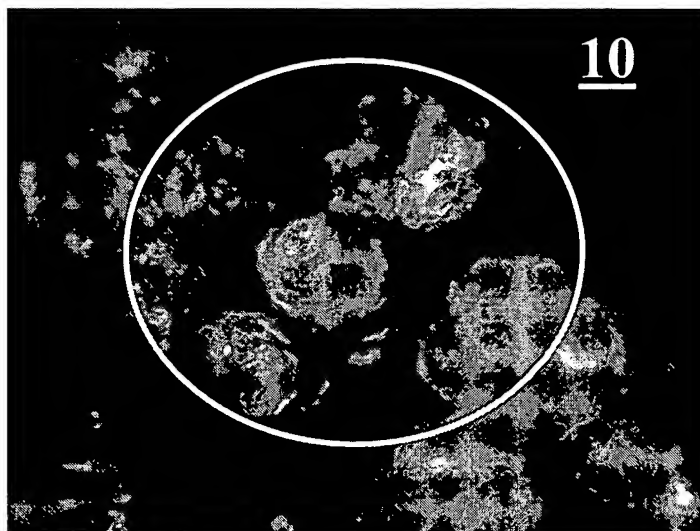


**FIG 1A – 1B** Tile w/ PCM intermixed with resin + granular medium

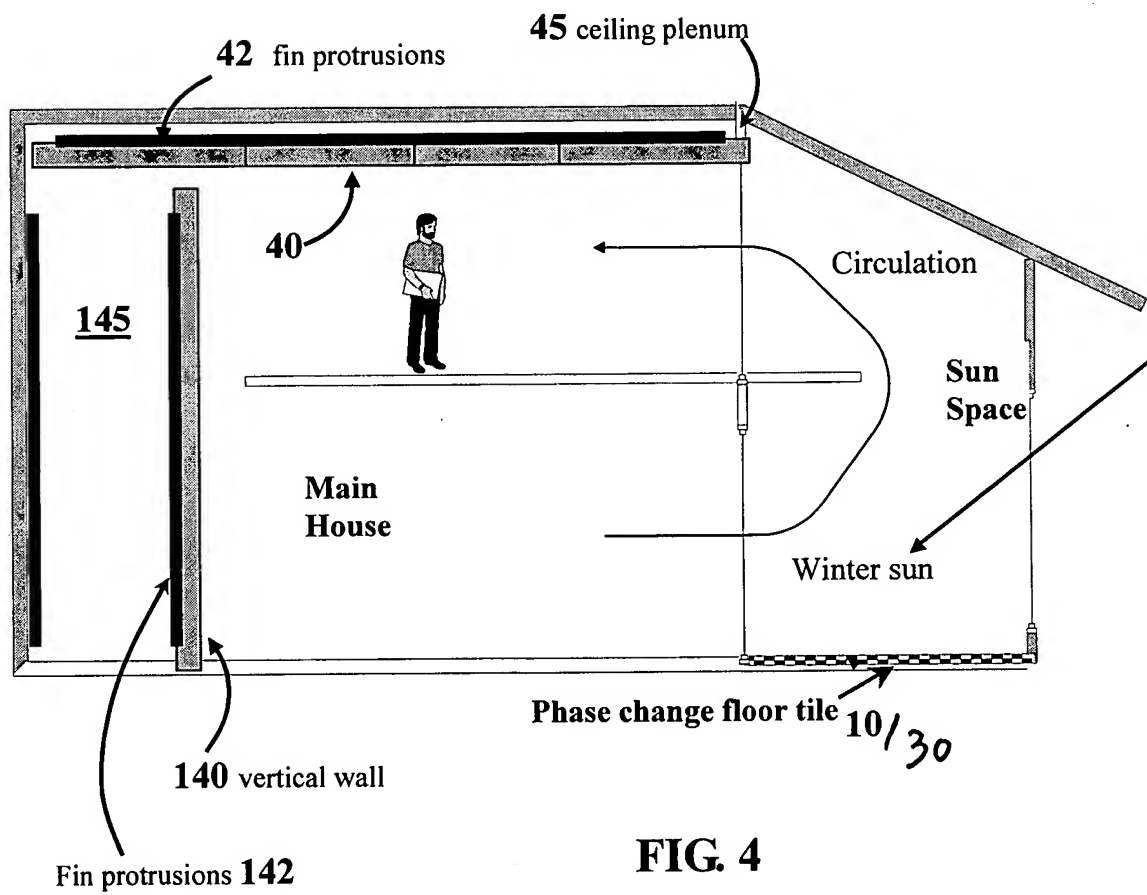
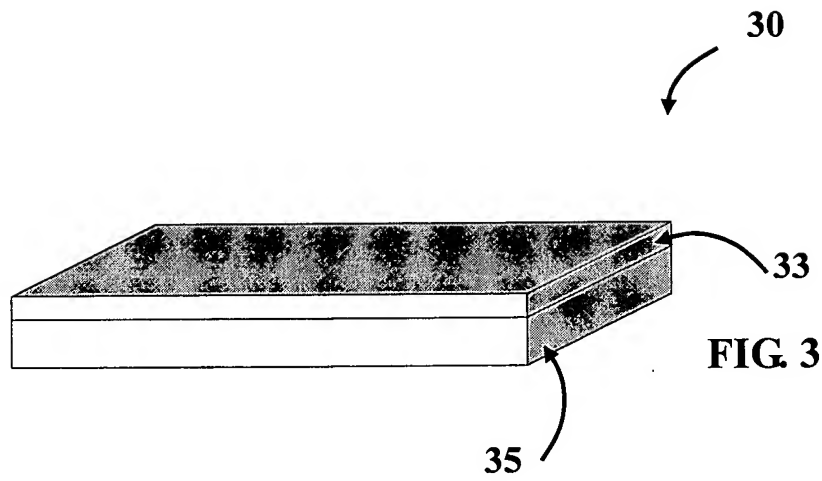


**FIG. 2A – 2B** (A) tile with PCM, (B) tile with PCM + resin, but no quartz  
{PCM capsules of microencapsulated paraffin within circle --- photomicrographs}



**FIG. 2C**

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## Molecular Structure of Solid-State Phase Change Materials

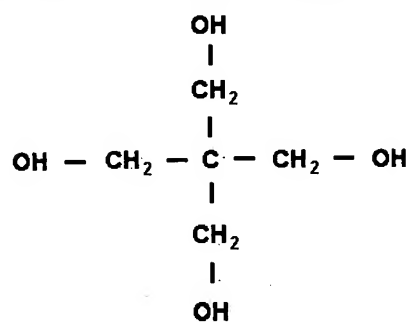


FIG. 5A Molecular structure of pentaerythritol,  $\text{C} - (\text{CH}_2\text{OH})_4$

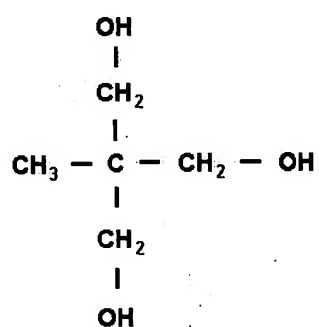


FIG. 5B Molecular structure of pentaglycerine,  $(\text{CH}_3) - \text{C} - (\text{CH}_2\text{OH})_3$

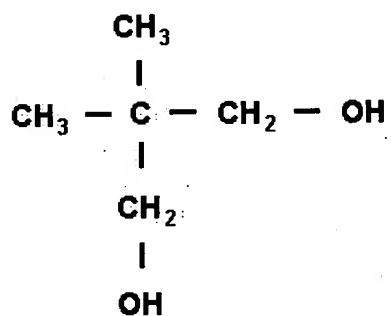
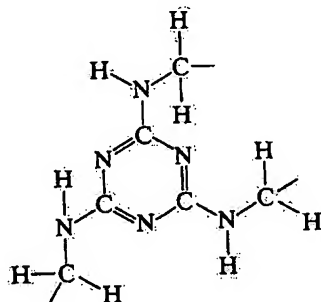
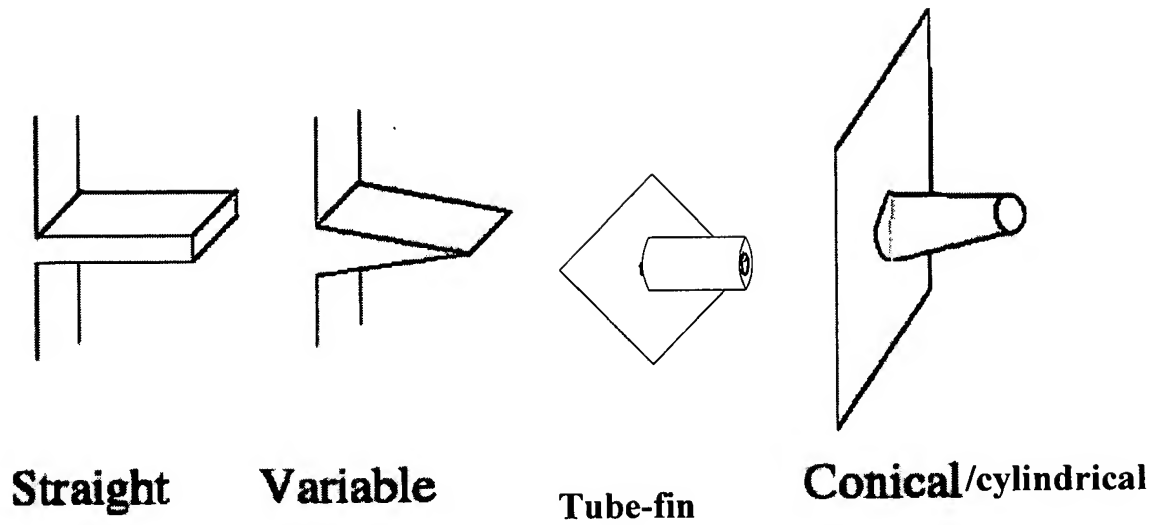


FIG. 5C Molecular structure of neopentyl glycol,  $(\text{CH}_3)_2 - \text{C} - (\text{CH}_2\text{OH})_2$

FIG. 6 Molecular structure of Melamine-Formaldehyde



**FIG. 7**



**FIG. 8**

PCM + binder shaped as pin fins, or other shaped fin protrusions, and bound to/integrated with outer surface of tile

